

## Information Sheet



Name  
Title  
Tel:  
Email:

Name  
Title

Date

Dear Participant,

My name is [Student] and I am a postgraduate student in Computer Science at the University of Bristol. I am investigating the effects of an IoT 'Turrellian' LED device orientated by your personal affective state and improve your mood. Testing of the device will take place in person and I will fully supervise the entire procedure personally – thus ensuring it is conducted ethically and properly.

### Purpose of study

My two hypotheses centre on qualitative and quantitative feedback from participants. Firstly, I believe that the affective or physiological state of a person will be significantly altered by the LED lamp's light changes. Secondly, users will be able to consciously recognise the effect that the lighting manipulation is having on their affective state. Subsequently, the Turrellian lamp will be well received. Therefore, the goal of the study is to develop an IoT device, which is capable of being aware of individuals affective state and thus can offer an enhanced and improved interface and experience for users. Consequently, research conclusions will be primarily drawn on users experience and opinion of the device and interface.

### Participation

Participants should be over 18, resident in the UK. Participants must be fully comfortable with participating in the present Coronavirus pandemic. Social distancing practices will be undertaken, in which no physical contact with participants will be made. Furthermore, I, the coordinator has tested negative for the virus.

Participation in this study is voluntary - you are free to withdraw during the study at any time and without having to give a reason. For your participation, you will be given a £10 Amazon gift certificate.

### Details of study

There will be an initial explanation of the study and an opportunity to ask questions. At this point, you will be asked for your verbal consent to be recorded and to proceed. Connecting basic and physical bodily sensors will be demonstrated. You will then be asked to interact with the application yourself and enjoy the LED light display for a short period of time.

Upon completion of the interaction exercise, you will be asked to complete a multiple-choice questionnaire about your experience with the IoT LED Turrellian device. After completing the questionnaire, there will be the opportunity to briefly give your comments and opinions in an interview format. Please understand that the interaction and your interview responses will be audio and/or video recorded for the purposes of this study.

### Time commitment

Task explanation and informed consent: 10 minutes

Bodily sensor demonstration: 10 minutes

LED interactive exercise: 10 minutes

Questionnaire filling: 10 minutes

Interview: 10-20 minutes

Full sanitization and cleaning: 10 minutes

Total: 60 minutes maximum

### **Prerequisites**

During the exercise, you will be asked to document your affective state utilizing the IoT LED application and wire up some basic physiological monitors. It is expected for participants to fill out their affective state honestly and wiring of sensors will be demonstrated / fully explained. Furthermore, feedback to participants regarding notable readings and immediate findings will be given. The exercise will not be deceptive at all. Participants can freely ask questions at any time during experimentation – thus avoiding any forms of confusion.

### **Risks and Disadvantages**

There are no known risks associated with completion of the questionnaire or the interview. Full sanitization and cleaning will take place before and after for five minutes the experimentation thus negating any risk to participants from catching Coronavirus. I will also be providing free and new PPE equipment which you can have and use. Cleaning supplies include hand sanitizers, surface cleaning equipment, masks and gloves – all of which will be purchased beforehand. As the sole experimental supervisor, I will wear full PPE throughout the entirety of the experiment and maintain social distancing practices from participants. Furthermore, participants will be provided with newly purchased PPE if they would like. Lastly, if participants at all feel uncomfortable and wish to no longer participate – that is completely acceptable and understandable.

### **Data management and Confidentiality**

No personally identifying information will be recorded on the questionnaire. Any personal information recorded as part of the consent process or through the experimentation will be kept strictly confidential. Any final write-ups of the data gathered in the interview will not include any information that can be linked directly to you. Any intermediate transcriptions will be stored so that your name is not associated with it (using an arbitrary participant number). All data will be handled confidentially and anonymously. The data collected from this study will be used in an MSc thesis for submission to the University of Bristol. It potentially may also be used in articles for publication in journals and conference proceedings. Results from the research will be presented in accordance with rules for anonymity such that the results cannot be traced to individual participants.

The anonymous data will be encrypted (as per University of Bristol Policy) and stored by the student on a password-protected computer system only accessible by the student and his supervisor. The questionnaire will be hosted on Google Forms or either a piece of paper provided. Thus, your use of these services during your participation may also be subjected the privacy policies drawn up by these corporations, which the student does not have any influence over. If this is a matter of interest to you, the relevant privacy policies are available to view through the following links:

Google Forms: <https://policies.google.com/privacy>

If you have any questions about the management of your data please do not hesitate to ask.

### **Right to Withdraw**

You are free to withdraw from the study at any time without penalty and without losing any advertised benefits. Withdrawal from the study will not affect your academic status or your access to services at the University of Bristol. If you withdraw, all of your data held by the student will be deleted from the study and destroyed. In addition, you are free to not answer specific questions in the interviews or on the questionnaire.

Your continued participation should be as informed as your initial consent, so you should feel free to ask for clarification or new information throughout your participation. If you have further questions concerning matters related to this research, please contact Toby using the details given at the top of the document.

### **Questions**

If you have any questions concerning the study, please feel free to ask at any point; you are also free to contact the student with the details provided above if you have questions at a later time. This study has been approved on ethical grounds by the University Of Bristol Faculty Of Engineering Ethics Board. Any questions regarding your rights as a participant may be addressed to that committee through the Faculty Ethics Officer (<http://www.bris.ac.uk/red/support/governance/ethics/ethics.html>). Please note that you are free to withdraw from participation at any time.

For more information on the University of Bristol's research in areas relating to this study, please see:  
[Website]

Thank you for your interest and cooperation. If you would like more information about the research project, please feel free to make contact.

Yours faithfully,

[Student Name]